## **AMENDMENT**

## In the Claims:

Applicant requests amendment of claims 25, 29, 32, 38, 41, and 47 as indicated herein. In addition, Applicant requests entry of new claims 52-56. Claims 35-37, 40, and 43-46 have been canceled without prejudice. A complete list of the claims according to 37 C.F.R. § 1.21(c) follows:

- 1. to 24. (Canceled)
- 25. (Currently Amended) A polypeptide comprising a sequence selected from the group consisting of:
  - (a) ILLWQPIPV (SEQ ID NO: 1),
- (b) (a) a derivative sequence of <u>ILLWQPIPV</u> (SEQ ID NO: 1), said derivative sequence having one or more amino acid deletions, additions, or substitutions,
  - (e) (b) CPRFQELESETLKSE (SEQ ID NO: 2),
- (d) (c) a derivative sequence of SEQ ID NO: 2, said derivative sequence having one or more amino acid deletions, additions or substitutions, and
  - (e) (d) a fragment sequence of sequence (a), (b), or (c), or (d); wherein the polypeptide has HLA class-I restricted activity.
- 26. (Previously presented) An isolated nucleic acid molecule comprising a sequence selected from the group consisting of:
  - (a) a nucleic acid molecule encoding the polypeptide of claim 25; and
- (b) a nucleic acid molecule, the complementary strand of which specifically hybridises to a nucleic acid molecule encoding the polypeptide of claim 25.
- 27. (Previously presented) A vector comprising a nucleic acid molecule according to claim 26.
- 28. (Previously presented) A host cell comprising a vector according to claim 27.
- 29. (Currently Amended) A monoclonal antibody capable of specifically binding to a polypeptide comprising a sequence selected from the group consisting of: the polypeptide of claim 25.
  - (a) ILLWQPIPV (SEQ ID NO: 1),

- (b) a derivative sequence of SEQ ID NO: 1, said derivative sequence having one or more amino acid deletions, additions, or substitutions,
  - (c) CPRFQELESETLKSE (SEQ ID NO: 2),
- (d) a derivative sequence of SEQ ID NO: 2, said derivative sequence having one or more amino acid deletions, additions or substitutions, and
  - (e) a fragment sequence of sequence (a), (b), (c), or (d); wherein the polypeptide has HLA class-I restricted activity.
- 30. (Previously presented) A method of detecting or monitoring cancer in a patient, the method comprising the step of detecting or monitoring elevated levels of the nucleic acid molecule according to claim 26 in a sample from the patient.
- 31. (Previously presented) A method of detecting or monitoring cancer in a patient, the method comprising the step of detecting or monitoring elevated levels of the nucleic acid molecule according to claim 26 with another nucleic acid molecule or a probe in combination with a reverse transcription polymerase chain reaction.
- 32. (Currently Amended) A method of detecting or monitoring cancer in a patient, the method comprising the step of detecting or monitoring elevated levels of <u>a polypeptide comprising a sequence selected from the group consisting of:</u> the polypeptide according to claim 25.
  - (a) ILLWQPIPV (SEQ ID NO: 1),
- (b) a derivative sequence of SEQ ID NO: 1, said derivative sequence having one or more amino acid deletions, additions, or substitutions,
  - (c) CPRFQELESETLKSE (SEQ ID NO: 2),
- (d) a derivative sequence of SEQ ID NO: 2, said derivative sequence having one or more amino acid deletions, additions or substitutions, and
  - (e) a fragment sequence of sequence (a), (b), (c), or (d); wherein the polypeptide has HLA class-I restricted activity.
- 33. (Previously presented) The method according to claim 32 wherein the detecting or monitoring step includes an antibody selective for the polypeptide of claim 25 to detect the polypeptide.
- 34. (Previously presented) The method according to claim 33 further comprising the step of using an enzyme-linked immunosorbant assay.
  - 35. to 37. (Canceled)

- 38. (Currently amended) A method of prophylaxis or treatment of cancer in a patient, the method comprising the step of administering to the patient a pharmaceutically effective amount of a polypeptide comprising a sequence selected from the group consisting of: according to claim 25,
  - (a) ILLWQPIPV (SEQ ID NO: 1),
- (b) a derivative sequence of SEQ ID NO: 1, said derivative sequence having one or more amino acid deletions, additions, or substitutions,
  - (c) CPRFQELESETLKSE (SEQ ID NO: 2),
- (d) a derivative sequence of SEQ ID NO: 2, said derivative sequence having one or more amino acid deletions, additions or substitutions, and
  - (e) a fragment sequence of sequence (a), (b), (c), or (d); wherein the polypeptide has HLA class-I restricted activity. or a pharmaceutically effective fragment thereof.
- 39. (Previously presented) A method of prophylaxis or treatment of cancer in a patient, the method comprising the step of administering to the patient a pharmaceutically effective amount of the monoclonal antibody according to claim 29.
  - 40. (Canceled)
- 41. (Currently Amended) A polypeptide comprising a protein carrier, which is not PAP or another fragment of PAP, covalently attached to the polypeptide according to claim 25, a polypeptide comprising a sequence selected from the group consisting of:
  - (a) ILLWQPIPV (SEQ ID NO: 1),
- (b) a derivative sequence of SEQ ID NO: 1, said derivative sequence having one or more amino acid deletions, additions, or substitutions,
  - (c) CPRFQELESETLKSE (SEQ ID NO: 2), and
- (d) a derivative sequence of SEQ ID NO: 2, said derivative sequence having one or more amino acid deletions, additions or substitutions;

wherein the polypeptide has HLA class-I restricted activity; or a pharmaceutically effective fragment thereof.

- 42. (Previously presented) A nucleic acid molecule encoding a polypeptide according to claim 41.
  - 43. to 46. (Canceled)

- 47. (Currently Amended) A immunogenic composition comprising (a) the polypeptide according to claim 25 (i) a polypeptide comprising a sequence selected from the group consisting of:
  - (a) ILLWQPIPV (SEQ ID NO: 1),
- (b) a derivative sequence of SEQ ID NO: 1, said derivative sequence having one or more amino acid deletions, additions, or substitutions,
  - (c) CPRFQELESETLKSE (SEQ ID NO: 2), and
- (d) a derivative sequence of SEQ ID NO: 2, said derivative sequence having one or more amino acid deletions, additions or substitutions;

## wherein the polypeptide has HLA class-I restricted activity;

or a pharmaceutically effective fragment thereof, where said polypeptide or fragment thereof is optionally attached to an immunogen which is not PAP or another fragment of PAP, and

- (b) (ii) a pharmaceutically acceptable carrier.
- 48. (Previously presented) A immunogenic composition comprising (a) the polypeptide according to claim 41 or a pharmaceutically effective fragment thereof, where said polypeptide or fragment thereof is optionally attached to an immunogen which is not PAP or another fragment of PAP, and (b) a pharmaceutically acceptable carrier.
- 49. (Previously presented) A kit comprising the polypeptide according to claim 25 for use with a method of detecting or monitoring cancer.
- 50. (Previously presented) A kit comprising the nucleic acid molecule according to claim 26 for use with a method of detecting or monitoring cancer.
- 51. (Previously presented) A kit comprising the monoclonal antibody according to claim 29 for use with a method of detecting or monitoring cancer.
- 52. (New) The method according to claim 32 wherein the cancer is a prostate cancer.
- 53. (New) The method according to claim 39, wherein the cancer is a prostate cancer.
- 54. (New) A method of inducing an immunogenic response in a patient, the method comprising administering to a patient a pharmaceutically effective amount of a polypeptide comprising a sequence selected from the group consisting of:
  - (i) ILLWQPIPV (SEQ ID NO: 1),

- (ii) a derivative sequence of SEQ ID NO: 1, said derivative sequence having one or more amino acid deletions, additions, or substitutions,
  - (iii) CPRFQELESETLKSE (SEQ ID NO: 2),
- (iv) a derivative sequence of SEQ ID NO: 2, said derivative sequence having one or more amino acid deletions, additions or substitutions, and
  - (v) a fragment sequence of sequence (i), (ii), (iii), or (iv); wherein the polypeptide has HLA class-I restricted activity.
  - 55. (NEW) The method of claim 54 wherein the patient has cancer.
- 56. (NEW) The method of claim 54 wherein the patient has prostate cancer.